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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Devandra T. Barot § GROUP ART UNIT: 1764
§
SERIAL NO. 09/482,023 §
§
FILED: January 13, 2000 § EXAMINER:
§ Not Yet Assigned
§
FOR: Combustion Chamber §
Design for a Quench Gasifier §

PRELIMINARY AMENDMENT

Attorney Dkt. No.: 1927-00101
Date: April 19, 2000

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

Prior to examination on the merits, please amend the above-identified application as follows:

In the claims:

Please cancel all pending claims, namely claims 1-9, and replace them with the following claims:

- 10. A quench gasifier for gasifying ash-containing hydrocarbon feedstocks, comprising:
- a combustion chamber for partially oxidizing the carbon in said feedstock to produce synthesis gases; and
 - a quench chamber adjacent said combustion chamber, said combustion chamber including a throat for directing said gases from the combustion chamber to the quench chamber, characterized in that said throat includes:
 - an inlet;
 - an outlet;
 - an inner surface between said inlet and said outlet, said face comprising a refractory material that can withstand temperatures of up to about 3500°F; and
 - an electrical heating element behind said face for heating said face to a temperature up to about 3500°F, such that components of said ash having

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GP 1764

PTO/SB/21 (12/97)

Approved for use through 09/30/00. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/482,023	
	Filing Date	January 13, 2000	
	First Named Inventor	Devandra T. Barot	
	Group Art Unit	1764	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in this Submission	7	Attorney Docket Number	1927-00101

ENCLOSURES (check all that apply)

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|---|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form
<input type="checkbox"/> Fee Attached | <input type="checkbox"/> Assignment Papers
<i>(for an Application)</i> | <input type="checkbox"/> After Allowance
Communication to Group |
| <input type="checkbox"/> Amendment/Response
<input type="checkbox"/> After Final
<input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> Appeal Communication to
Board of Appeals and
Interferences |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to
Group
<i>(Appeal Notice, Brief, Reply Brief)</i> |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Petition Routing Slip (PTO/SB/69)
and Accompanying Petition | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> To Convert a Provisional
Application | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Response to Missing Parts/
Incomplete Application | <input type="checkbox"/> Power of Attorney Revocation
Change of Correspondence
Address | <input checked="" type="checkbox"/> Additional Enclosure(s)
<i>(please identify below):</i>
Preliminary Amendment |
| <input type="checkbox"/> Response to Missing Parts
under 37 CFR ' 1.52 or
1.53 | <input type="checkbox"/> Terminal Disclaimer | |
| | <input type="checkbox"/> Small Entity Statement | |
| | <input type="checkbox"/> Request for Refund | |

REMARKS:

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual Name
MARCELLA D. WATKINS
CONLEY, ROSE & TAYON, P. C.

Signature

Marcella Watkins

Date

April 19, 2000

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: April 19, 2000

Type or printed name

M. A. CRABTREE

Signature

M. A. Crabtree

Date

April 19, 2000

K:\

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FEE TRANSMITTAL FY 1999 Patent fees are subject to annual revision. Small Entity payment <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.		Complete if Known	
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TOTAL AMOUNT OF PAYMENT		(\$)	00.00
		Attorney Docket Number	1927-00101

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																			
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account No.: 03-2769 Deposit Account Name: Conley, Rose & Tayon, P.C. <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other		3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td>\$</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>\$</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td>\$</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexam</td><td>\$</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td>\$</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td>\$</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within 1st month</td><td>\$</td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within 2nd month</td><td>\$</td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension to reply within 3rd month</td><td>\$</td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension to reply within 4th month</td><td>\$</td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension to reply within 5th month</td><td>\$</td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td>\$</td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td>\$</td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td>\$</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td>\$</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td>\$</td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td>\$</td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td>\$</td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td>\$</td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td>\$</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td>\$</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional apps.</td><td>\$</td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Dis. 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SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	MARCELLA D. WATKINS	Registration Number	36,962
Signature	<i>Marcella Watkins</i>	Deposit Account User ID	
Date	April 19, 2000		